

Assignment -2

Assignment Date	1 November 2022
Student Name	Kavyabala SB
Student Roll Number	711719104041
Maximum Marks	2 Marks

Question-1:

1. Create a User table with Username, email, roll number, password
2. Perform UPDATE and DELETE queries
3. Connect python code to database
4. Create Flask app for a User registration and User login

Solution:

App.py

```
from flask import Flask, render_template, request, redirect
import sqlite3 as sql
import models as
dbHandler
app = Flask( name )
app.secret_key =
'fasdgfdgdfg'

@app.route('/')
) def home():
return render_template('home.html')

@app.route('/adduser')
def new_user():
return render_template('add_user.html')

@app.route('/addrec',methods = ['POST', 'GET'])
def addrec():
```

```

if request.method==
'POST': try:
email = request.form['email']
un = request.form['username']

rn =
request.form['rollnumber']
pin = request.form['pin']
with sql.connect("User_database.db") as con:
cur = con.cursor()
cur.execute("INSERT INTO users (email,username,rollnumber,pin)
VALUES (?, ?, ?, ?)",(email,un,rn,pin) )
con.commit()
msg = "Record successfully added!"
except:
con.rollback()
msg = "error in insert operation"
finally:
return render_template("list.html",msg = msg)
con.close()
@app.route('/list')
def list():
con = sql.connect("User_database.db")
con.row_factory = sql.Row
cur = con.cursor()
cur.execute("select * from users")
users = cur.fetchall()
return render_template("list.html", users = users)
if name == ' main ':
app.run(debug = True)

```

```

@app.route("/delete
") def delete():
return render_template("delete.html")
@app.route('/deleterecord',methods =
["POST"]) def deleterecord():
un = request.form['username']
with sql.connect("User_database.db") as
con: try:
cur = con.cursor()
cur.execute("DELETE FROM users WHEREUsername = ?",[un])
con.commit()
msg = "Record successfully deleted"
except:
msg = "can't be deleted"
finally:
return render_template("home1.html",msg = msg)
if name == ' main ':
app.run(debug = True)
@app.route('/deldb', methods = ["POST"])
def deldb():
con =
sql.connect('User_database.db') cur
= con.cursor() cur.execute('DELETE
FROM users;') con.commit()
con.close()
msg = 'All the data has been deleted'
return render_template("home1.html",msg = msg)
@app.route("/log"
) def log():
return render_template("login.html")
@app.route('/login', methods =['GET', 'POST'])

```

```

def login():
    un =
    request.form['username'] if
    request.method=='POST':
    users =
    dbHandler.retrieveUsers() msg =
    'Logged in successfully!'
    return render_template('welcome.html', users=un, msg=msg)
    else:
    msg = 'You are not registered, would you like to be registered'
    return render_template('home1.html', msg=msg)
if name == ' main ':
    app.run(debug=False,
    host='0.0.0.0')

```

Models.py

```

import sqlite3 as sql
def retrieveUsers():
    con =
    sql.connect("User_database.db") cur
    = con.cursor()
    cur.execute("SELECT username, pin FROM
    users") users = cur.fetchone()
    con.close()
    return users
sqlite_db_setup.py
import sqlite3

```

```

conn =
sqlite3.connect('User_database.db')
print("Opened database successfully")

```

```
conn.execute('CREATE TABLE users (email TEXT, username TEXT, rollnumber  
INTEGER, pin INTEGER)')
```

```
print("Table created successfully")
```

```
conn.close()
```

Home.html

```
<h1>Welcome to User DB APP</h1><br><br>
```

```
<a href="/">HOME</a><br><br>
```

```
<a href="/adduser">User Registration</a><br><br>
```

```
<a href="/list">List User</a><br><br>
```

```
<a href="/log">Log in</a><br><br>
```

```
<a href="/delete">Remove a User</a>
```

Add_user.html

```
<form action = "{{ url_for('addrec') }}" method = "POST">
```

```
<h3>User
```

```
Information</h3> E-
```

```
mail<br>
```

```
<input type = "email" name = "email" /></br>
```

```
Username<br>
```

```
<input type = "text" name = "username" /></br>
```

```
Rollnumber<br>
```

```
<input type = "text" name = "rollnumber" /><br>
```

```
PIN<br>
```

```
<input type = "password" name = "pin" min="4" max="8" /><br><br>
```

```
<input type = "submit" value = "submit" /><p> </p>
```

```
<input type = "reset"/>
```

```
</form>
```

list.html

```
<!doctype html>
```

```
<html>
```

```
<body>
```

```
<a href="/">HOME</a><br><br>
```

```
<a href="/adduser">Add New Student</a><br><br>
```

```
<a href="/list">List Student</a><br><br>
```

```
<br><hr>
```

```
{{ msg }}
```

```
<table border = 1>
```

```
<thead>
```

```
<td> Email </td>
```

```
<td> Username </td>
```

```
<td> Roll Number </td>
```

```
<td> Pin </td>
```

```
</thead>
```

```
{% for row in users %}
```

```
<tr>
```

```
<td>{{row["email"]}}</td>
```

```
<td>{{row["username"]}}</td>
```

```
<td> {{ row["rollnumber"] }}</td>
```

```
<td>{{row['pin']}}</td>
```

```
</tr>
```

```
{% endfor %}
```

```
</table>
```

```
</body>
```

```
</html>
```